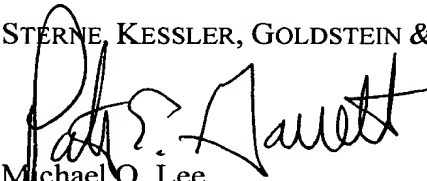


Remarks

Claims 1-4, 6-10, 13-37, and 39 are pending in this application. By the foregoing amendment, Applicants seek to cancel claims 5, 11, 12, 38, and 40, and amend claims 4, 10, 32, and 39. These changes are believed to be fully supported by the specification and are not believed to introduce new matter. Thus, it is respectfully requested that the amendments be entered by the Examiner. The Examiner is invited to telephone the undersigned representative if it is believe that an interview might be useful for any reason.

Respectfully submitted,

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Version with markings to show changes made

In the Claims:

4. (Once Amended) The apparatus of claim 1, wherein said first control signal and said second control signal each comprise a plurality of pulses [having an associated pulse width T_A that operates to improve energy transfer to a desired harmonic image in said harmonically rich signal].

10. (Once Amended) The apparatus of claim 7, wherein said third and said fourth control signals each comprise a train of pulses [having pulse widths that are established to improve energy transfer from said input signal to said first and said second down-converted signals, respectively].

32. (Once Amended) A method of transmitting a baseband signal over a wireless LAN, comprising the steps of:

(1) spreading the baseband signal using a spreading code, resulting in a spread baseband signal; and

(2) differentially sampling the spread baseband signal according to a first control signal and a second control signal resulting in a plurality of harmonic images that are each representative of the baseband signal[, wherein said first and second control signals have pulse widths that improve energy transfer to a desired harmonic image of said plurality of harmonics].

39. (Once Amended) In a wireless LAN device, a method of down-converting a received RF signal, comprising the steps of:

down-converting said received RF signal according to a first control signal and a second control signal, resulting in a down-converted signal, wherein said second control signal is delayed relative to said first control signal by $.5 + n$ cycles of said received RF signal, wherein n may be any integer greater than or equal to 1;

de-spreading said down-converted signal using a spreading code, resulting in a de-spread signal; and

de-modulating said de-spread signal, resulting in a de-modulated signal;

wherein said first and said second control signals each comprise a train of pulses [having pulse widths that are established to improve energy transfer from said received RF signal to said down-converted signal].

Claims 5, 11, 12, 38, and 40 have been canceled.